

BOLTONOCOSTIDAE nom. nov. (Insecta, Hypoperlida), a replacement name for ORTHOCOSTIDAE Bolton, 1912

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Abstract. The purpose of this note, under Article 39, is to propose the replacement name BOLTONOCOSTIDAE for the invalid name ORTHOCOSTIDAE Bolton, 1912, a monotypic family of fossil insects (Insecta, Hypoperlida) of Carboniferous age.

Keywords. Nomenclature; taxonomy; Insecta; Palaeodictyoptera; Hypoperlida; ORTHOCOSTIDAE; BOLTONOCOSTIDAE, Carboniferous.

1. During a search to update the family fossil record of insects since Ross & Jarzembowski (1993), for a PhD by Nicholson (2012), an invalid family name was encountered.

2. The monotypic family ORTHOCOSTIDAE Bolton, 1912 (p. 313) was erected for the type genus *Orthocosta* Bolton, 1912 within the order Palaeodictyoptera. However, this generic name was a junior homonym of *Orthocosta* Fritsch, 1879 (in Fritsch, 1879–1884, p. 28). Carpenter (1985, p. 575) published the replacement generic name *Boltonocosta* for *Orthocosta* Bolton, 1912. However, he placed it in ‘Family uncertain’ rather than provide a new family name, and he listed it as such within the order Palaeodictyoptera (Carpenter, 1992, p. 44). Subsequently Labandeira (1995, p. 18) listed the family name ORTHOCOSTIDAE under Palaeodictyoptera. Under Article 39, the family name ORTHOCOSTIDAE is not valid. Carpenter (1992) dismissed the holotype as a ‘wing fragment’. However, there is enough of the wing preserved and enough characters present for future detailed comparison with other families, so the family requires a new replacement name. Although this does not require a Commission’s ruling, it seems appropriate to propose a suitable replacement name here. *Boltonocosta* was placed in the order Hypoperlida by Rasnitsyn in Rasnitsyn & Quicke (2002, p. 111).

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